

Figure 1
(2.1-kb SAMS - GUS - NOS 3') region from pZSL12

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atcgatagag acatgttatt cacaaccat aaaatgatgg ctaaaattgg tgtgattgga      60
acgatatctg tttattatga tttcagggcg caaaaatgcg agtacttaat aaaattttac      120
atttaaatta gaattttttt tatcaataaa tattaattta ttagttttat tagaaatatt      180
aattagaaaa ttttgaatcc ccgatttctc ctctttttct tcgctattca tcattttcta      240
accaaaccac tcttatatgt tcttcaaatt agaacttgaa attattaatt ataattaaac      300
tgaaaacaat ttggtatcaa ttcataatac tgcttagtaa taaaatgcga taattaattg      360
ataaatctgc aaaagatttt acaaatatct ttcagaaaaa attaataaca aattttgtcg      420
ttttcatggt gttggtctga ggaggatttg gcactatana nctctctac ggaccattct      480
ttgcacttca actaaacgat ggtcagaatt ggtggggatt ttatattcaa gcatatccct      540
ttcaaaactt cctacttact tcgtgcgttc ggtaatcggt aacattagac tttcaaaatc      600
atttttaacc cctaaacagt aaatttgaag gacaaaaata atatttttca aatttgatan      660
actatttttt ttttgtaatt tgacgaacca aaaccagatt tatcctgaat tttaggaacc      720
acagatgtna ctaaaccaat atttatttat tttctaaaac aaaatttcat ggcagcatgc      780
ctcagcccat gaaaaaaacc ttataaaaat atctacacat tgaccattga aaagtctggt      840
ctcccatggg taaccagatc aaactcacat ccaaacataa catggatgc tccttaccaa      900
tcataactaat tattttgggt taaatattaa tcattatttt taagatatta attaagaaat      960
taaaagattt tttaaaaaaa tgtataaaat tatattattc atgatttttc atacatttga      1020
ttttgataat aaatatattt tttttaattt cttaaaaaat gttgcaagac acttattaga      1080
catagtcttg ttctgtttac aaaagcattc atcatttaat acattaaaaa atatttaata      1140
ctaacagtag aatcttcttg tgagtgggtg gggagtaggc aacctggcat tgaaacgaga      1200
gaaagagagt cagaaccaga agacaaataa aaagtatgca acaaacaat caaatcaaa      1260
gggcaaaggc tgggggttgc tcaattggtt gctacattca attttcaact cagtcaacgg      1320
ttgagattca ctctgacttc cccaatctaa gccgcggatg caaacggttg aatctaacc      1380
acaatccaat ctctgtactt aggggctttt ccgtcattaa ctcaacctg ccaccgggtt      1440
tccctataaa ttggaactca atgctccct ctaaactcgt atcgcttcag agttgagacc      1500
aagacacact cgttcatata tctctctgct cttctcttct cttctacctc tcaaggctact      1560

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Figure 1 (continued)

tttcttctcc ctctacaaaa tcctagattc cgtggttcaa tttcggatct tgcacttctg	1620
gtttgctttg ccttgctttt tcctcaactg ggtccatcta ggatccatgt gaaactctac	1680
tctttcttta atatctgcgg aatacgcgtt ggactttcag atctagtcga aatcatttca	1740
taattgcctt tctttctttt agcttatgag aaataaaaac actttttttt tatttcaaaa	1800
taaaccttgg gccttggtgt gactgagatg gggtttggtg attacagaat tttagcgaat	1860
tttgtaattg tacttgtttg tctgtagttt tgttttggtt tcttgtttct catacattcc	1920
ttaggcttca attttattcg agtataggtc acaataggaa ttcaaacttt gagcagggga	1980
attaatccct tccttcaaat ccagtttggt tgtatatatg tttaaaaaat gaaacttttg	2040
ctttaaattc tattataact ttttttatgg ctgaaatttt tgcagtgtgc tttgctctct	2100
gttgtaaatt tactgtttag gtactaactc taggcttggt gtgcagtttt tgaagtataa	2160
ccatggtacg tcctgtagaa accccaaccc gtgaaatcaa aaaactcgac ggctgtggg	2220
cattcagtct ggatcgcgaa aactgtgga ttgatcagcg ttggtgggaa agcgcgttac	2280
aagaaagccg ggcaattgct gtgccaggca gttttaacga tcagttcgcc gatgcagata	2340
ttcgttaatta tgcgggcaac gtctggtatc agcgcgaagt ctttataccg aaaggttggg	2400
caggccagcg tatcgtgctg cgtttcgatg cggtcactca ttacggcaaa gtgtgggtca	2460
ataatcagga agtgatggag catcagggcg gctatacgcc atttgaagcc gatgtcacgc	2520
cgtatgttat tgcggggaaa agtgtagta tcaccgtttg tgtgaacaac gaactgaact	2580
ggcagactat cccgccggga atggtgatta ccgacgaaaa cggcaagaaa aagcagtctt	2640
acttccatga tttctttaac tatgccggaa tccatcgag cgtaatgctc tacaccacgc	2700
cgaacacctg ggtggacgat atcaccgtgg tgacgcatgt cgcgcaagac tgtaaccacg	2760
cgtctgttga ctggcaggtg gtggccaatg gtgatgtcag cgttgaactg cgtgatgcgg	2820
atcaacaggt ggttgcaact ggacaaggca ctagcgggac tttgcaagtg gtgaatccgc	2880
acctctggca accgggtgaa ggttatctct atgaactgtg cgtcacagcc aaaagccaga	2940
cagagtgtga tatctaccg cttcgcgtcg gcatccggtc agtggcagtg aagggccaac	3000
agttcctgat taaccacaaa ccgttctact ttactggctt tggtcgtcat gaagatgcgg	3060
acttaoctgg caaaggattc gataacgtgc tgatggtgca cgaccacgca ttaatggact	3120
ggattggggc caactcctac cgtacctcgc attaccctta cgctgaagag atgctcgact	3180

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Figure 1 (continued)

gggcagatga acatggcatc gtggtgattg atgaaactgc tgctgtcggc tttaacctct	3240
ctttaggcat tggtttcgaa gcgggcaaca agccgaaaga actgtacagc gaagaggcag	3300
tcaacgggga aactcagcaa gcgcacttac aggcgattaa agagctgata gcgcgtgaca	3360
aaaaccaccc aagcgtggtg atgtggagta ttgccaacga accggatacc cgtccgcaag	3420
tgcacgggaa tatttcgcca ctggcggaag caacgcgtaa actcgaccgc acgcgtccga	3480
tcacctgcgt caatgtaatg ttctgcgacg ctacacaccga taccatcagc gatctctttg	3540
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cagagaaggt actggaaaaa gaacttctgg cctggcagga gaaactgcat cagccgatta	3660
tcacacaccga atacggcgtg gatacgttag ccgggctgca ctcaatgtac accgacatgt	3720
ggagtgaaga gtatcagtgt gcatggctgg atatgtatca ccgcgtcttt gatcgcgtca	3780
gcgcgcgtcgt cggatgaacag gtatggaatt tcgccgattt tgcgacctcg caaggcatat	3840
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gcaacaatg aatcaacaac tctcctggcg caccatcgtc ggctacagcc tcggtgggga	4020
attccccggg ggtacctaat agtgagatcc aacacttacg ttgcaacgt ccaagagcaa	4080
atagaccacg nacgccggaa ggttgccgca gcgtgtggat tgcgtctcaa ttctctcttg	4140
caggaatgca atgatgaata tgatactgac tatgaaactt tgagggaata ctgcctagca	4200
ccgtcacctc ataacgtgca tcatgcatgc cctgacaaca tggaacatcg ctatttttct	4260
gaagaattat gctcgttggg ggtatgcgcg gcaattgcag ctattgcaa catcgaacta	4320
cccctcacgc atgcattcat caatattatt catgcgggga aaggcaagat taatccaact	4380
ggcaaatcat ccagcgtgat tggtaacttc agttccagcg acttgattcg ttttgggtgct	4440
accacgttt tcaataagga cgagatggtg gagtaaagaa ggagtgcgtc gaagcagatc	4500
gttcaaacat ttggcaataa agtttcttaa gattgaatcc tgttgccggt cttgcgatga	4560
ttatcatata atttctgttg aattacgtta agcatgtaat aattaacatg taatgcatga	4620
cgttatttat gagatgggtt tttatgatta gagtcccgcg attatacatt taatacgca	4680
tagaaaacaa aatatagcgc gcaaaactagg ataaattatc gcgcgcggtg tcatctatgt	4740
tactagatcg atcaaaacttc ggtactgtgt aatgacgatg agcaatcgag aggctgacta	4800
acaaaaggta catcggtcga cgagctc	4827

Figure 2

(1.3-kb SAMS - soy mutant ALS - soy ALS-3')-region from pZSL13

tctagatcaa actcacatcc aaacataaca tggatatctt ccttaccaat cataactaatt	60
atatttgggtt aaatattaat cattattttt aagatatttaa ttaagaaatt aaaagatttt	120
ttaaaaaaat gtataaaaatt atattattca tgattttttca tacatttgat tttgataata	180
aatatatttt ttttaatttc ttaaaaaatg ttgcaagaca cttattagac atagtcttgt	240
tctgtttaca aaagcattca tcatttaata cattaaaaaa tatttaatac taacagtaga	300
atcttcttgt gagtgggtgt ggagtaggca acctggcatt gaaacgagag aaagagagtc	360
agaaccagaa gacaaataaa aagtatgcaa caaacaaatc aaaatcaaag ggcaaaggct	420
ggggttggct caattgggtg ctacattcaa ttttcaactc agtcaacggg tgagattcac	480
tctgacttcc ccaatctaag ccgcggtatgc aaacggttga atctaaccga caatccaatc	540
tcgttactta ggggcttttc cgtcattaac tcacccctgc caccgggtt ccctataaat	600
tggaactcaa tgctcccctc taaactcgta tcgcttcaga gttgagacca agacacactc	660
gtcatatat ctctctgctc ttctcttctc ttctacctct caaggactt ttcttctccc	720
tctaccaaat cctagattcc gtggttcaat ttcggtatctt gcaacttctgg tttgctttgc	780
cttgcctttt cctcaactgg gtccatctag gatccatgtg aaactctact ctttctttta	840
tatctgcgga atacgcgttg gactttcaga tctagtcgaa atcatttcat aattgccttt	900
ctttctttta gcttatgaga aataaaatca cttttttttt atttcaaaat aaaccttggg	960
ccttgtgctg actgagatgg ggtttggtga ttacagaatt ttagcgaatt ttgtaattgt	1020
acttgtttgt ctgtagtttt gttttgtttt cttgtttctc atacattctt taggcttcaa	1080
ttttattcga gtatagggtca caataggaat tcaaactttg agcaggggaa ttaatccctt	1140
ccttcaaatc cagtttggtt gtatatatgt ttaaaaaatg aaacttttgc tttaaattct	1200
attataactt tttttatggc tgaaattttt gcatgtgtct ttgctctctg ttgtaaattt	1260
actgtttagg tactaactct aggcttggtg tgcagttttt gaagtataac catgccacac	1320
aacacaatgg cggccaccgc ttccagaacc acccgattct cttcttctctc ttcacacccc	1380
accttcccc aacgcattac tagatccacc ctccctctct ctcacaaac cctcaccaaa	1440
cccaaccacg ctctcaaaat caaatgttcc atctccaaac cccccacggc ggcgccttc	1500
accaaggaag cgccgaccac ggagcccttc gtgtcacggg tcgcctccgg cgaacctcgc	1560

Figure 2 (continued)

aagggcgcg	acatccttgt	ggagggcgctg	gagagggcagg	gcgtgacgac	ggtgttcgcg	1620
taccccgggcg	gtgcgtcgat	ggagatccac	caggcgctca	cgcgctccgc	cgccatccgc	1680
aacgtgctcc	cgcgccacga	gcagggcggc	gtcttcgccc	ccgaaggcta	cgcgcgttcc	1740
tccggcctcc	ccggcgctctg	cattgccacc	tccggccccg	gcgccaccaa	cctcgtgagc	1800
ggcctcgccg	acgctttaat	ggacagcgtc	ccagtcgtcg	ccatcacccg	ccaggtcgcc	1860
cgccggatga	tcggcaccga	cgccttccaa	gaaaccccga	tcgtggaggt	gagcagatcc	1920
atcacgaagc	acaactacct	catcctcgac	gtcgacgaca	tcccccgct	cgtcgcccag	1980
gctttcttcg	tcgccacctc	cggccgcccc	ggtccgggtcc	tcatcgacat	tcccaaagac	2040
gttcagcagc	aactcgccgt	gcctaattgg	gacgagcccc	ttaacctccc	cggttacctc	2100
gccaggctgc	ccaggcccc	cgccgaggcc	caattggaac	acattgtcag	actcatcatg	2160
gaggcccaaa	agcccgttct	ctacgtcggc	ggtggcagtt	tgaattccag	tgctgaattg	2220
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tttctattg	gtgatgaata	ttcccttcag	atgctgggta	tgcatggtag	tgtttatgct	2340
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ggaggttgga	gagaagagat	taatgtgcag	aaacacaagt	ttccattggg	ttacaagaca	2640
ttccaggacg	cgatttctcc	gcagcatgct	atcgaggttc	ttgatgagtt	gactaatgga	2700
gatgctattg	ttagtactgg	ggttgggcag	catcaaagt	gggctgcgca	gttttacaag	2760
tacaagagac	cgaggcagtg	gttgacctca	gggggtcttg	gagccatggg	ttttggattg	2820
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gatggtagtt	tcatcatgaa	tgttcaggag	ttggccacta	taagagtgga	gaatctccca	2940
gttaagatat	tgttgttgaa	caatcagcat	ttgggtatgg	tggttcagtt	ggaggatagg	3000
ttctacaagt	ccaatagagc	tcacacctat	cttgagatc	cgtctagcga	gagcgagata	3060
ttcccaaaca	tgctcaagtt	tgctgatgct	tgtgggatac	cggcagcgcg	agtgacgaag	3120
aaggaagagc	ttagagcggc	aattcagaga	atgttgga	ccctggccc	ctaccttctt	3180

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Figure 2 (continued)

gatgtcattg tgcccatca ggagcatgtg ttgccgatga ttcccagtaa tggatccttc	3240
aaggatgtga taactgaggg tgatggtaga acgaggtact gattgcctag accaaatgtt	3300
ccttgatgct tgttttgtac aatatatata agataatgct gtcctagttg caggatttgg	3360
cctgtgggtga gcatcatagt ctgtagtagt tttggtagca agacatttta ttttcctttt	3420
atttaactta ctacatgcag tagcatctat ctatctctgt agtctgatat ctctgtttgt	3480
ctgtattgtg ccgttggatt ttttgctgta gtgagactga aaatgatgtg ctagtaataa	3540
tattttctgtt agaaatctaa gtagagaatc tgttgaagaa gtcaaaagct aatggaatca	3600
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ttggagctca cctaggcaat cagtaaaatg catattcctt ttttaacttg ccatttattt	3720
acttttagtg gaaattgtga ccaatttggt catgtagaac ggatttggac cattgcgtcc	3780
acaaaacgtc tcttttgctc gatcttcaca aagcgatacc gaaatccaga gatagttttc	3840
aaaagtcaga aatggcaaag ttataaatag taaaacagaa tagatgctgt aatcgacttc	3900
aataacaagt ggcatacagt ttctagttct agaccggg	3939

Figure 3

(2.1-kb SAMS - *Arabidopsis* mutant ALS - *Arabidopsis* ALS 3')
region from pZSL14

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atcgatagag acatgttatt cacaaacat aaaatgatgg ctaaaattgg tgtgattgga      60
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atttaaatta gaattttttt tatcaataaa tattaattta ttagttttat tagaaatatt     180
aattagaaaa ttttgaatcc ccgatttctc ctcccttttct tcgctattca tcattttcta     240
accaaaccac tcttatatgt tcttcaaatt agaacttgaa attattaatt ataattaaac     300
tgaaaacaat ttggtatcaa ttcatatata tgcttagtaa taaaatgcga taattaattg     360
ataaatctgc aaaagatttt acaaatatct ttcagaaaaa attaataaca aattttgtcg     420
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ttcaaaactt cctacttact tcgtgcgttc ggtaatcggg aacattagac tttcaaaatc     600
atttttaacc cctaaacagt aaatttgaag gacaaaaata atatttttca aatttgatan     660
actatTTTTT ttttgtaatt tgacgaacca aaaccagatt tatcctgaat tttaggaacc     720
acagatgtna ctaaaccaat atttatttat tttctaaaac aaaatttcat ggcagcatgc     780
ctcagcccat gaaaaaaacc ttataaaaat atctacacat tgaccattga aaagtctggt     840
ctcccatggg taaccagatc aaactcacat ccaaacataa catggatatc tccttaccaa     900
tcatactaatt tttttgggt taaatattaa tcattatttt taagatatta attaagaaat     960
taaaagattt tttaaaaaaa tgtataaaat tatattatct atgatttttc atacatttga    1020
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gaaagagagt cagaaccaga agacaaataa aaagtatgca acaaacaaat caaaatcaaa    1260
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acaatccaat ctcgttactt aggggctttt ccgtcattaa ctcacccctg ccacccggtt    1440
tccctataaa ttggaactca atgctcccct ctaaactcgt atcgcttcag agttgagacc    1500
aagacacact cgttcatata tctctctgct cttctcttct cttctacctc tcaaggtact    1560

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Figure 3 (continued)

tttcttctcc ctctaccaaa tcttagattc cgtggttcaa tttcggatct tgcacttctg 1620
 gtttgctttg ccttgctttt tcctcaactg ggtccatcta ggatccatgt gaaactctac 1680
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 aacctacca acccgaaaca ttcattctccc gattcgctcc agatcaaccc cgcaaaggcg 2460
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 ttgttgagct tacggggatc cctggttgcga gtacgttgat ggggctggga tcttaccct 3180

Figure 3 (continued)

gtgatgatga gttgtcgta catatgcttg gaatgcatgg gactgtgtat gcaaattacg 3240
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gtaagcttga ggcttttgct agtagggcta agattgttca tattgatatt gactcggctg 3360
agattgggaa gaataagact cctcatgtgt ctgtgtgtgg tgatgttaag ctggctttgc 3420
aagggatgaa taaggttctt gagaaccgag cggaggagct taagcttgat tttggagttt 3480
ggaggaatga gttgaacgta cagaaacaga agtttccggt gagctttaag acgtttgggg 3540
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aaccaaggca gtggctatca tcaggaggcc ttggagctat gggatttgga cttcctgctg 3720
cgattggagc gtctgttgct aaccctgatg cgatagttgt ggatattgac ggagatggaa 3780
gctttataat gaatgtgcaa gagctagcca ctattcgtgt agagaatctt ccagtgaagg 3840
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tggtttccaa attaaataaa actacgatgt catcgagaag taaaatcaac tgtgtccaca 4620
ttatcagttt tgtgtatacg atgaaatagg gtaattcaaa atctagcttg atatgccttt 4680
tggttcattt taaccttctg taaacatttt ttcagatttt gaacaagtaa atccaaaaaa 4740
aaaaaaaaa aaatctcaac tcaacactaa attattttta tgtataaaag atgcttaaaa 4800

Figure 3 (continued)

catttggtt aaaagaaaga agctaaaaac atagagaact cttgtaaatt gaagtatgaa	4860
aatatactga attgggtatt atatgaattt ttctgattta ggattcacat gatccaaaaa	4920
ggaaatccag aagcactaat cagacattgg aagtaggaat atttcaaaaa gttttttttt	4980
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atggcaggat gtggatttca tttttttcct ttgatagcc ttttaattga tctattataa	5160
ttgacgaaaa aatattagtt aattatagat atattttagg tagtattagc aatttacact	5220
tccaaaagac tatgtaagtt gtaaatatga tgcgttgatc tcttcatcat tcaatggtta	5280
gtcaaaaaaa taaaagctta actagtaaac taaagtagtc aaaaattgta ctttagttta	5340
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tccccggg	5408

pZSL11



pZSL12

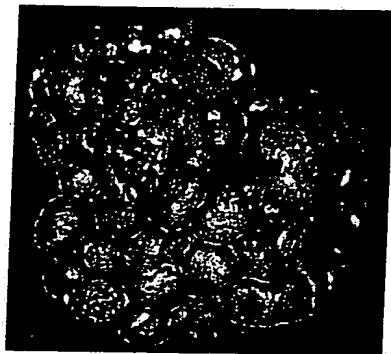
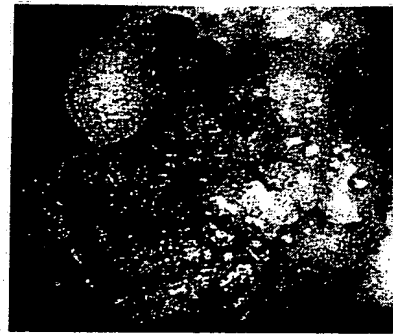


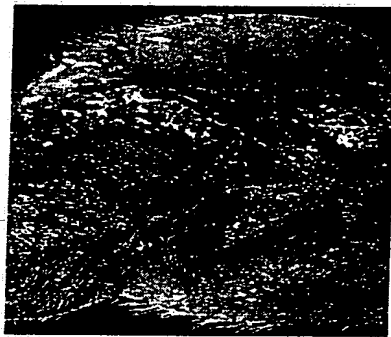
Figure 4. GUS Expression in Soybean Embryogenic Cell Lines Transformed with pZSL11 or pZSL12.

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Suspension Culture



Leaf+Stem



Root

Figure 5. GUS Expression in Soybean Transformed with pZSL11.